



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet


Product Description: SAW Filter 858.5 MHz SMD 3.0X3.0 mm (BW=37MHz)

TST Part No.: TA1416A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 12, 5, 2011

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW Filter 858.5 MHz

MODEL NO.:TA1416A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

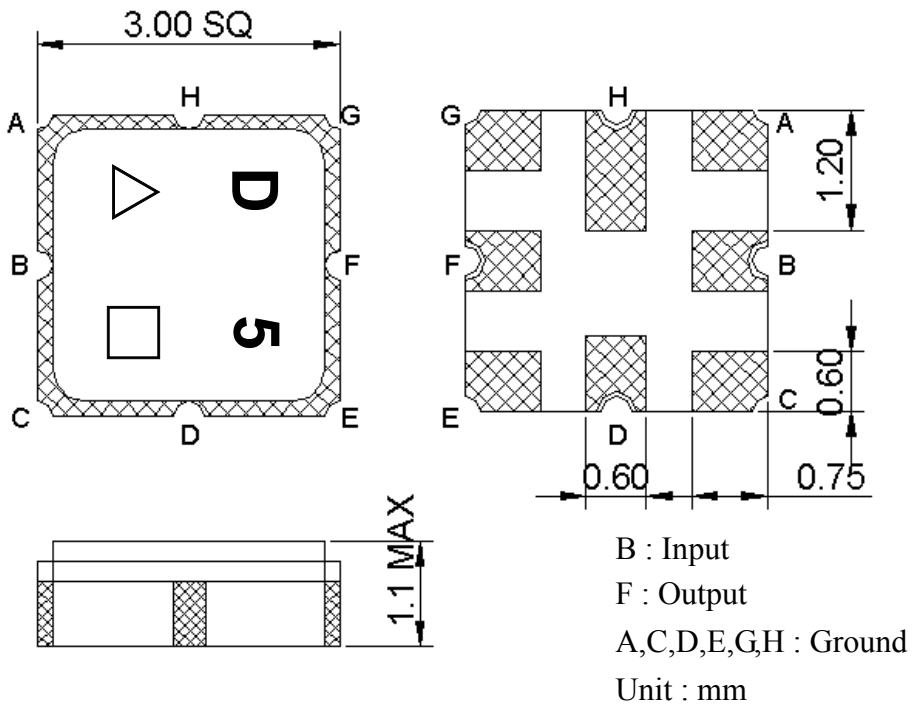
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single ended) : $Z_s = 50 \Omega$

Terminating load impedance (single ended) : $Z_L = 50 \Omega$

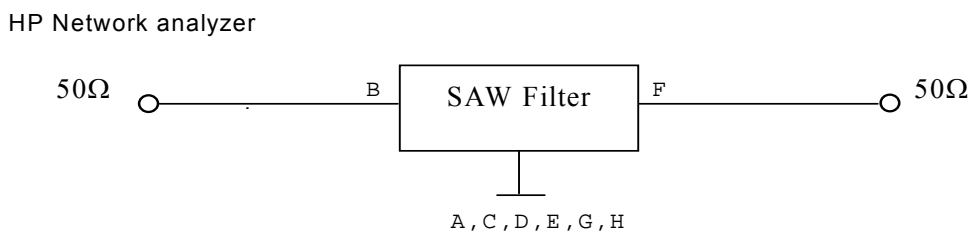
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	858.5	-	-
Insertion Loss (840 ~ 877 MHz)	dB	-	3.15	4	-
Amplitude Ripple (840~877 MHz)	dB	-	0.8	2	-
VSWR (840~877 MHz)		-	1.3	2.1	-
Attenuation (reference level from 0 dB)					
DC~790 MHz	dB	25	35	-	-
989~1005 MHz	dB	30	47	-	-
1642~1792 MHz	dB	30	36	-	-
1792~3000 MHz	dB	15	25	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-75	-	-

C.OUTLINE DRAWING:

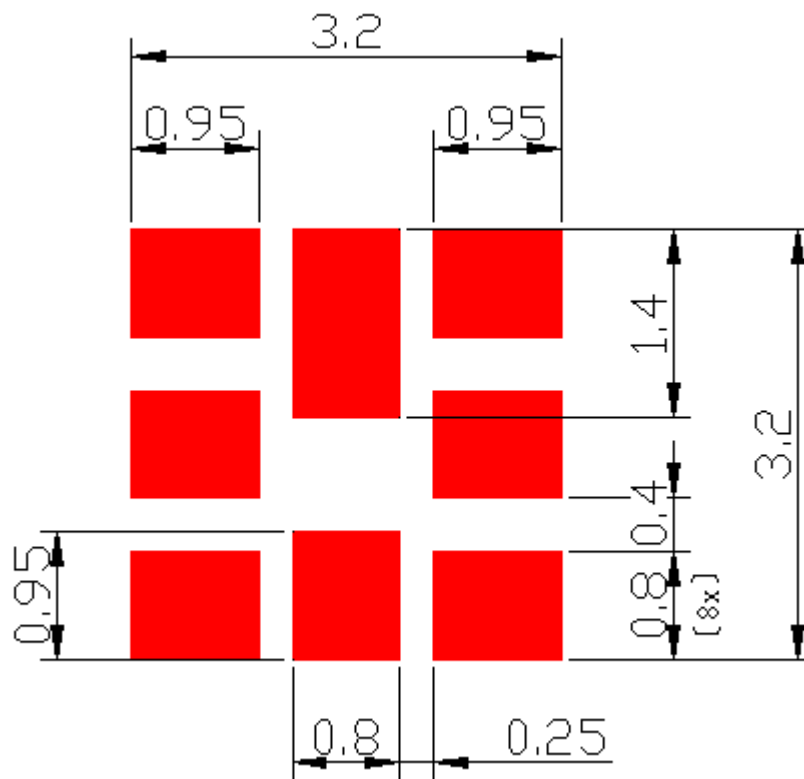


- △ : Year Code (2009->9, 2010->0, ..., 2018->8)
- : Date Code (W01->A, W02->B, ... W27->a, ..., W52->z)

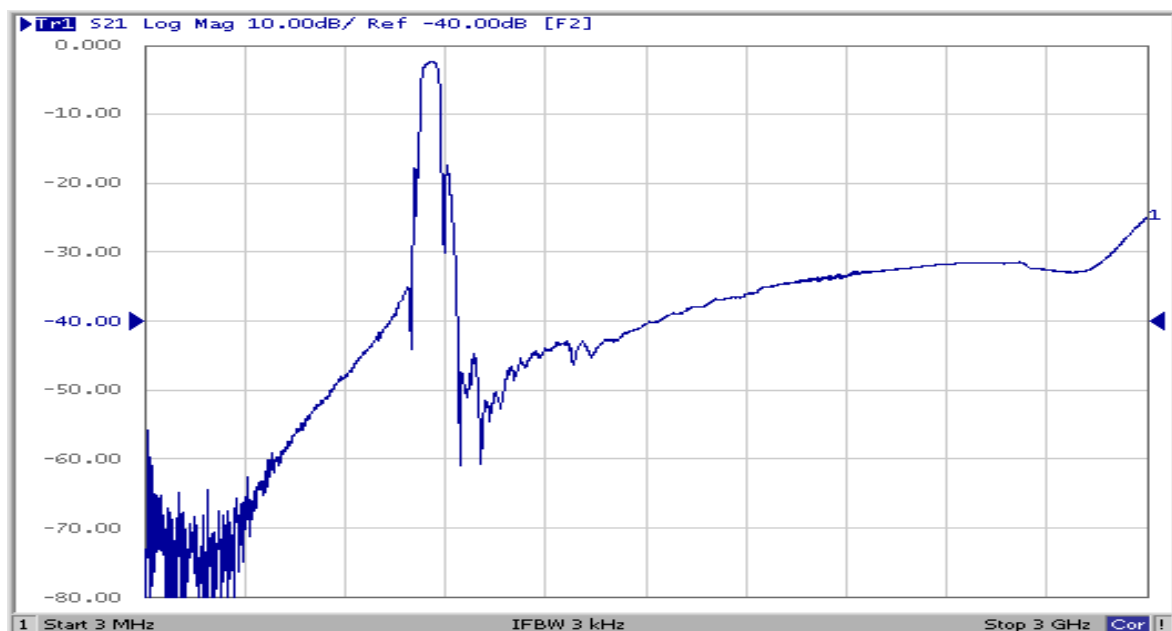
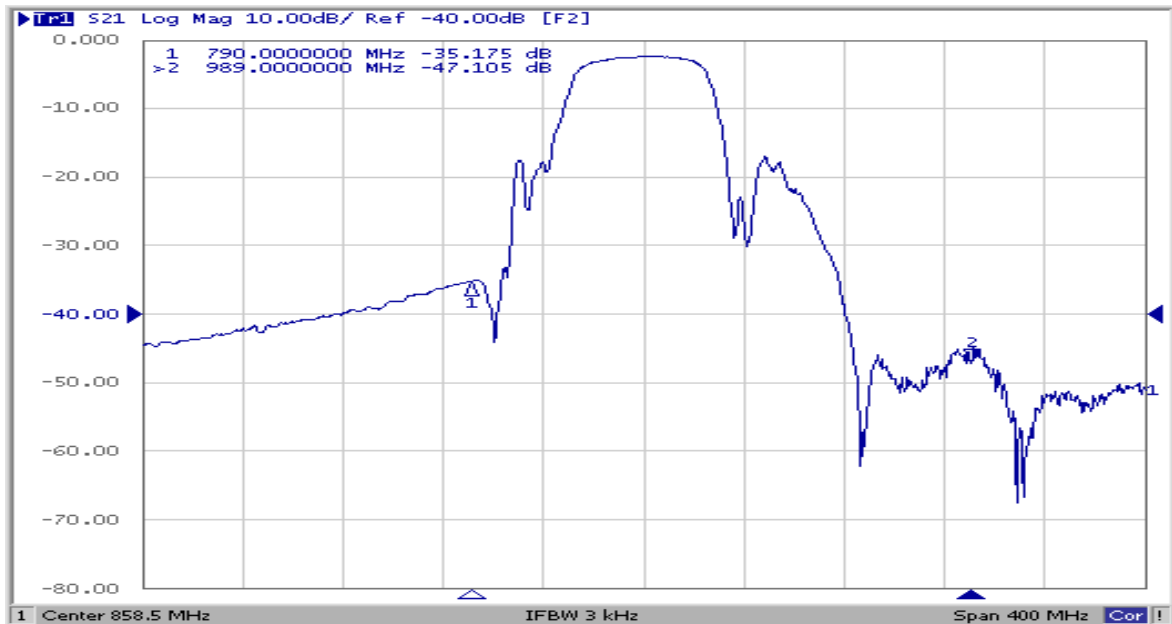
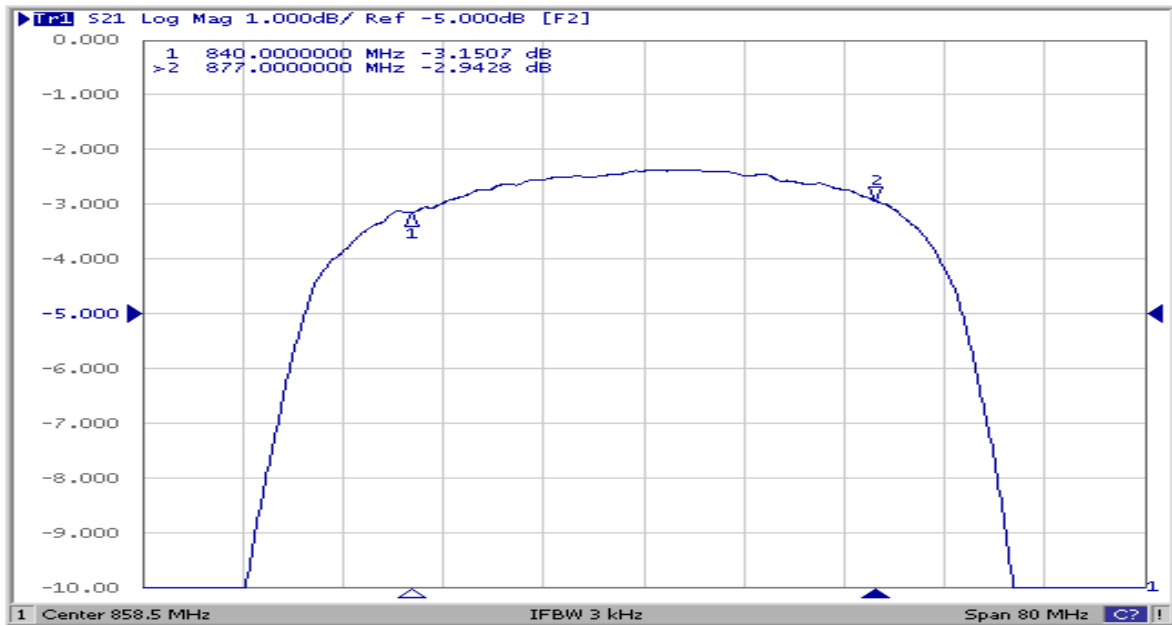
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

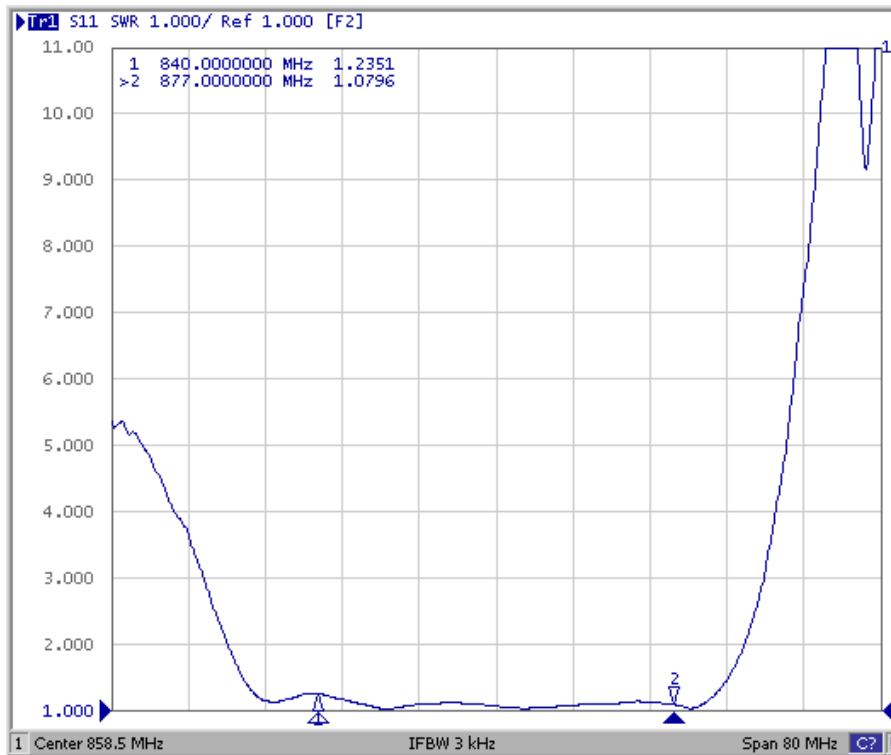


F. Frequency Characteristics :

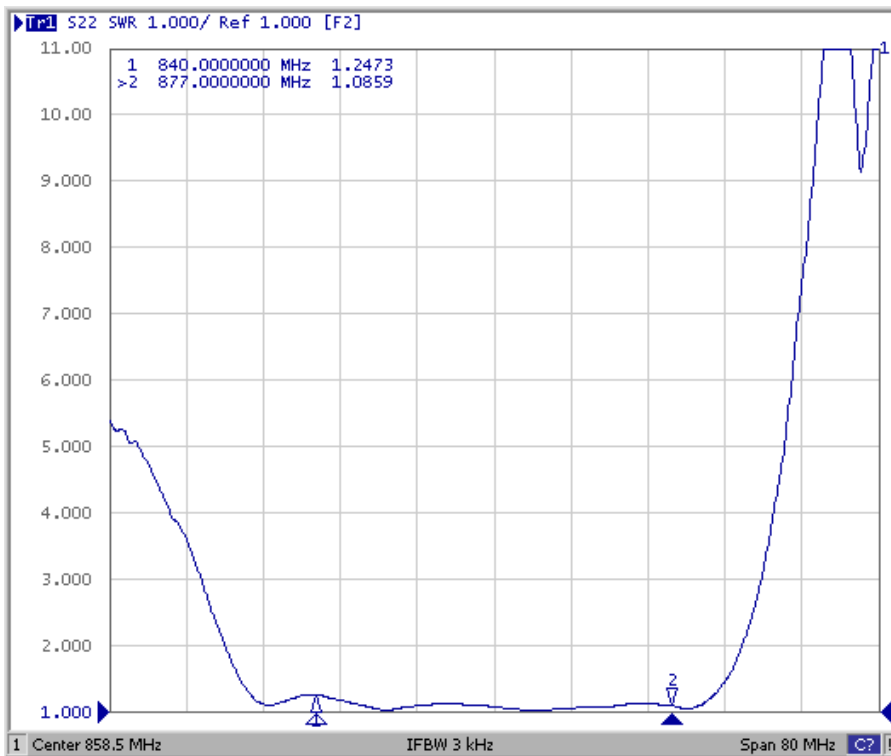


Reflection Functions :

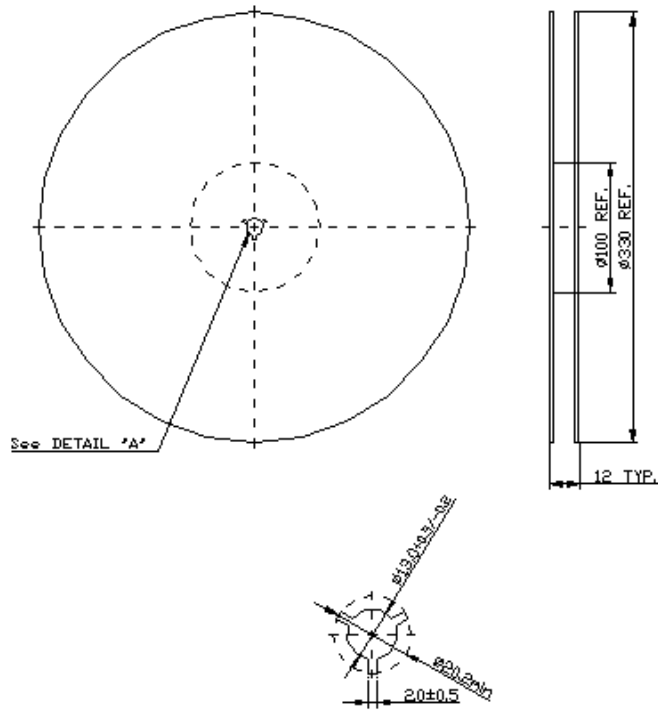
S11



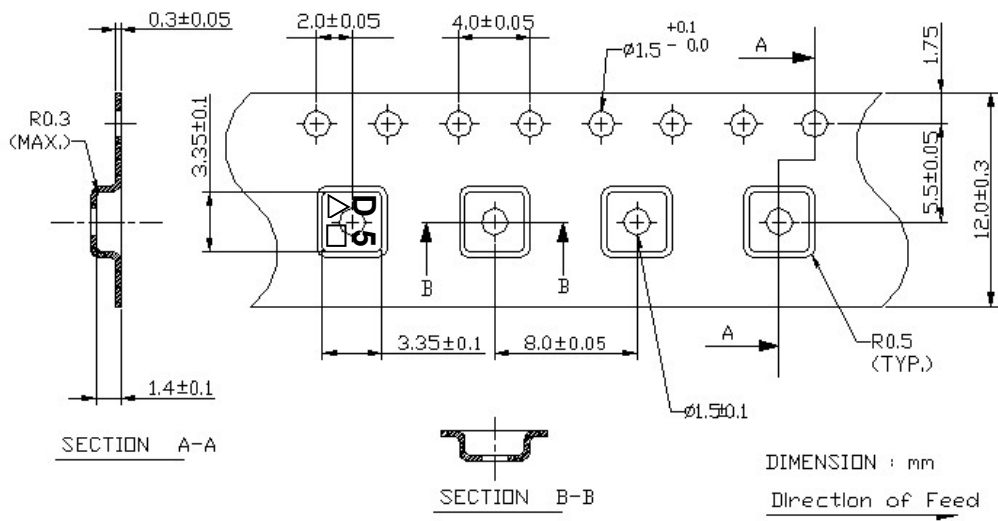
S22



G. PACKING:
1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

